PRINTER RUSH
(PTO ASSISTANCE)

Application : 09/634473 **Examiner :** Chang **GAU :** 2637

From: MWD **Location:** (IDC) FMF FDC **Date:** 9/28/05

Tracking #: EFM-09/634473 Week Date: 5/16/05

DOC CODE	DOC DATE	MISCELLANEOUS
☐ 1449		☐ Continuing Data
☐ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW		☐ Fees
☐ SRFW		☐ Other
☑ DRW	11/13/00	
☐ OATH		
☐ 312		
☐ SPEC		

[RUSH] **MESSAGE:** Attn: Chief Draftsperson

1) Figures 1, 4, 8 and 14 are obstructed by a date stamp. Please advise.

Thanks

[XRUSH] **RESPONSE:**

Drawings Corrected

INITIALS: JG

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

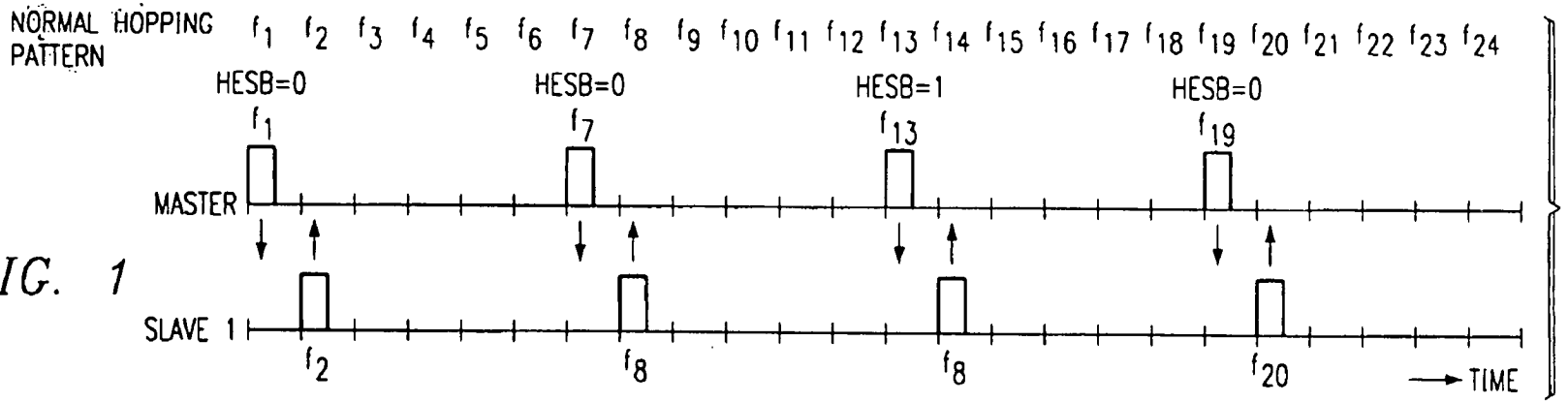

NORMAL HOPPING PATTERN
f1 f2 f3 f4 f5 f6 f7 f8 f9 f10 f11 f12 f13 f14 f15 f16 f17 f18 f19 f20 f21 f22 f23 f24
HESB=0
HESB=0
HESB=1
HESB=0
f1
f7
f13
f19
MASTER
SLAVE 1
f2
f8
f8
f20
TIME

FIG. 1

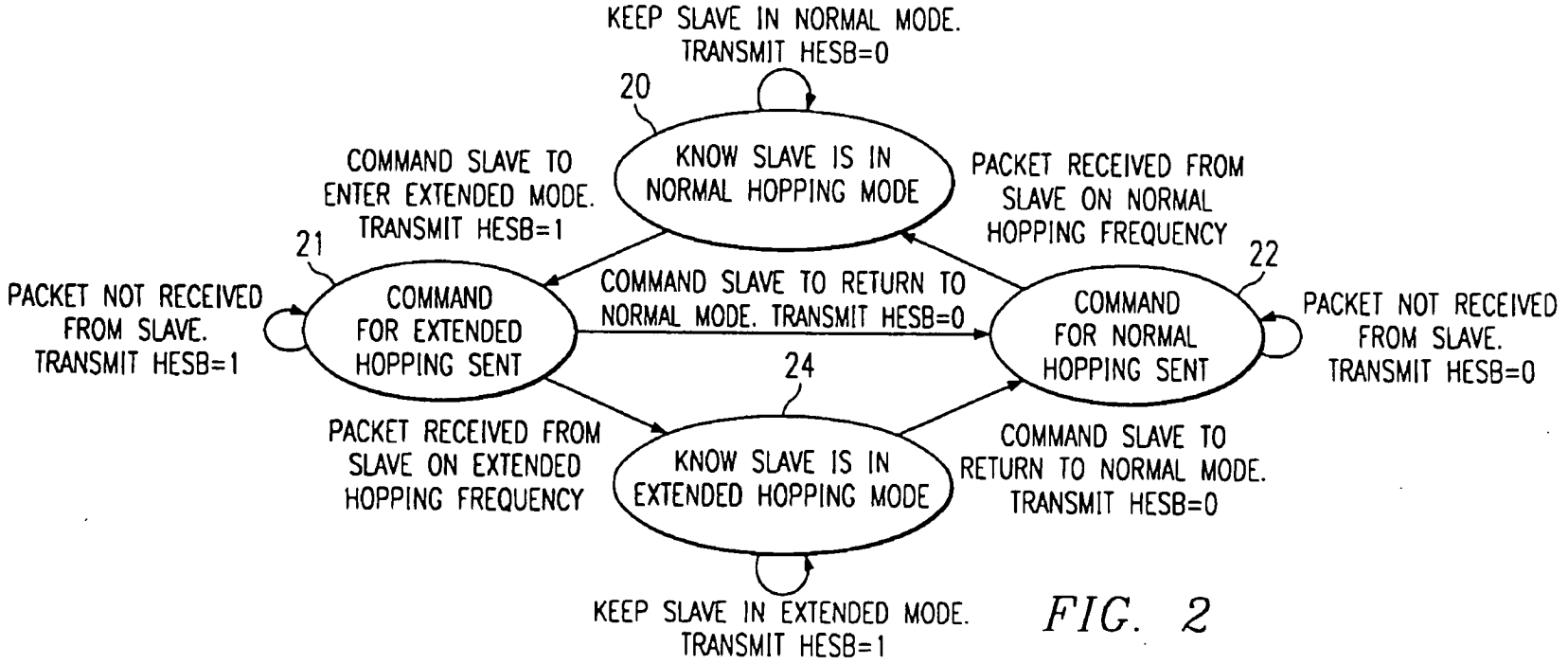

KEEP SLAVE IN NORMAL MODE. TRANSMIT HESB=0
20
KNOW SLAVE IS IN NORMAL HOPPING MODE
COMMAND SLAVE TO ENTER EXTENDED MODE. TRANSMIT HESB=1
PACKET RECEIVED FROM SLAVE ON NORMAL HOPPING FREQUENCY
21
22
PACKET NOT RECEIVED FROM SLAVE. TRANSMIT HESB=1
COMMAND FOR EXTENDED HOPPING SENT
COMMAND SLAVE TO RETURN TO NORMAL MODE. TRANSMIT HESB=0
COMMAND FOR NORMAL HOPPING SENT
PACKET NOT RECEIVED FROM SLAVE. TRANSMIT HESB=0
24
PACKET RECEIVED FROM SLAVE ON EXTENDED HOPPING FREQUENCY
KNOW SLAVE IS IN EXTENDED HOPPING MODE
COMMAND SLAVE TO RETURN TO NORMAL MODE. TRANSMIT HESB=0
KEEP SLAVE IN EXTENDED MODE. TRANSMIT HESB=1

FIG. 2

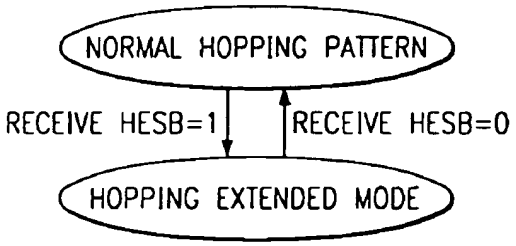


FIG. 3

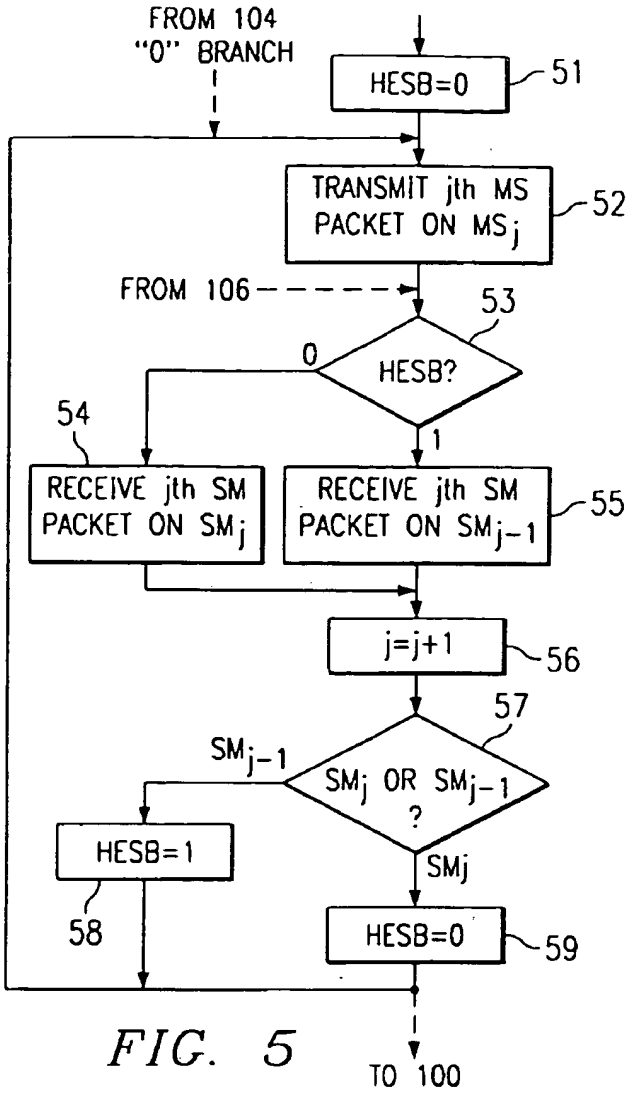


FIG. 5

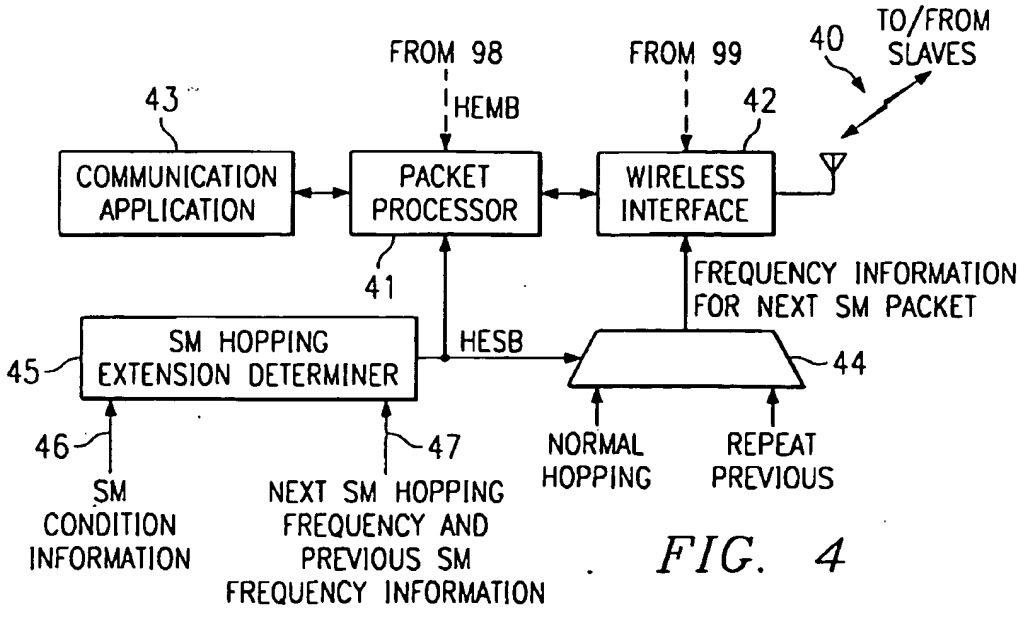


FIG. 4

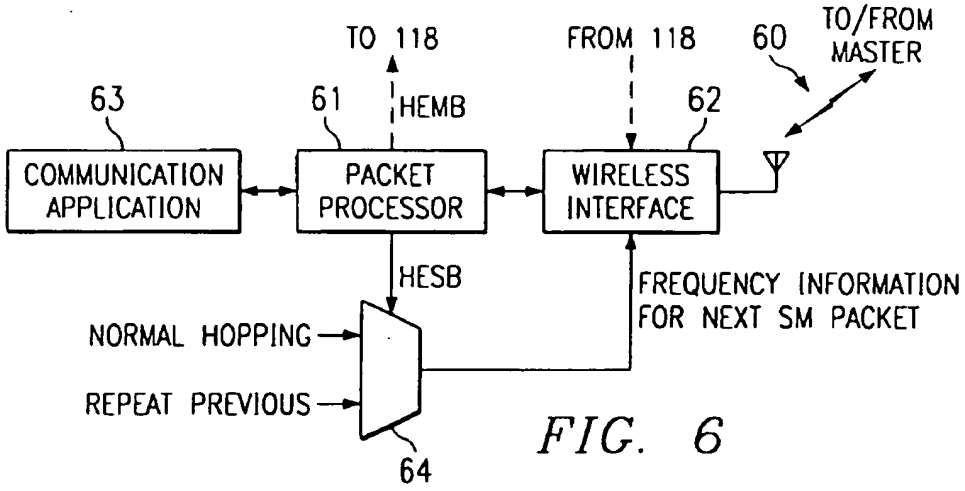

TO 118
FROM 118
60
TO/FROM MASTER
63
61
HEMB
62
COMMUNICATION APPLICATION
PACKET PROCESSOR
WIRELESS INTERFACE
HESB
FREQUENCY INFORMATION FOR NEXT SM PACKET
NORMAL HOPPING
REPEAT PREVIOUS
64

FIG. 6

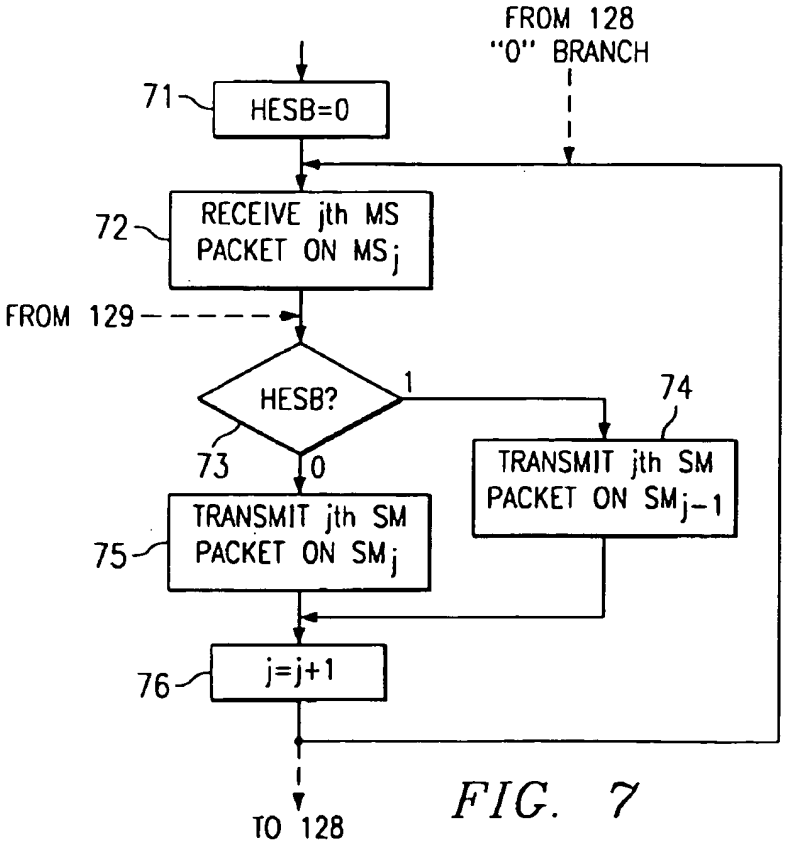

FROM 128 "0" BRANCH
71
HESB=0
72
RECEIVE jth MS PACKET ON MS$_j$
FROM 129
HESB?
1
74
73
0
TRANSMIT jth SM PACKET ON SM$_{j-1}$
75
TRANSMIT jth SM PACKET ON SM$_j$
76
j=j+1
TO 128

FIG. 7

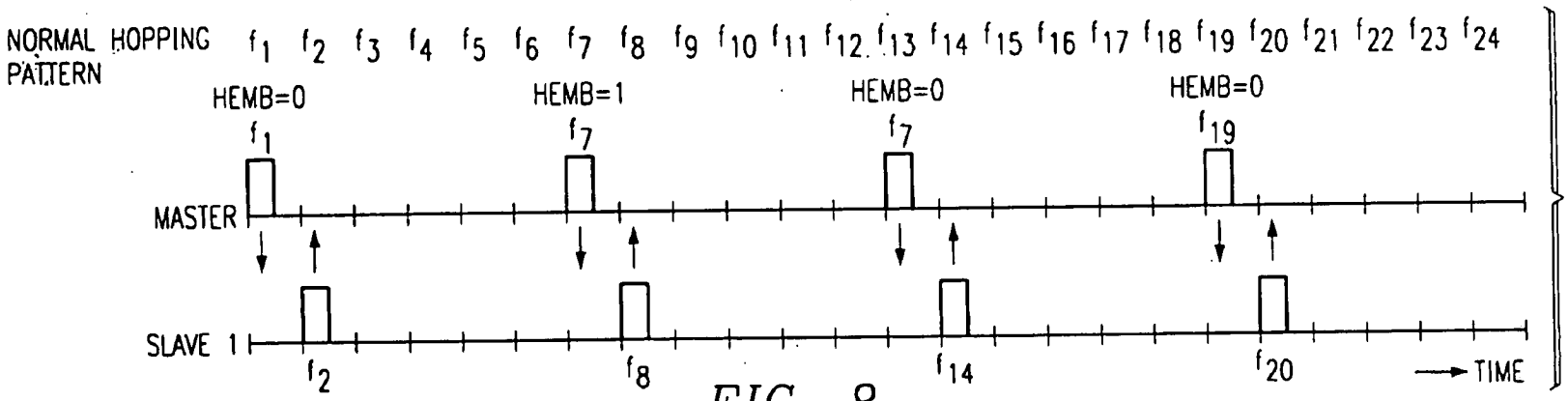

NORMAL HOPPING PATTERN
f1 f2 f3 f4 f5 f6 f7 f8 f9 f10 f11 f12 f13 f14 f15 f16 f17 f18 f19 f20 f21 f22 f23 f24
HEMB=0
HEMB=1
HEMB=0
HEMB=0
f1
f7
f7
f19
MASTER
SLAVE 1
f2
f8
f14
f20
TIME

FIG. 8

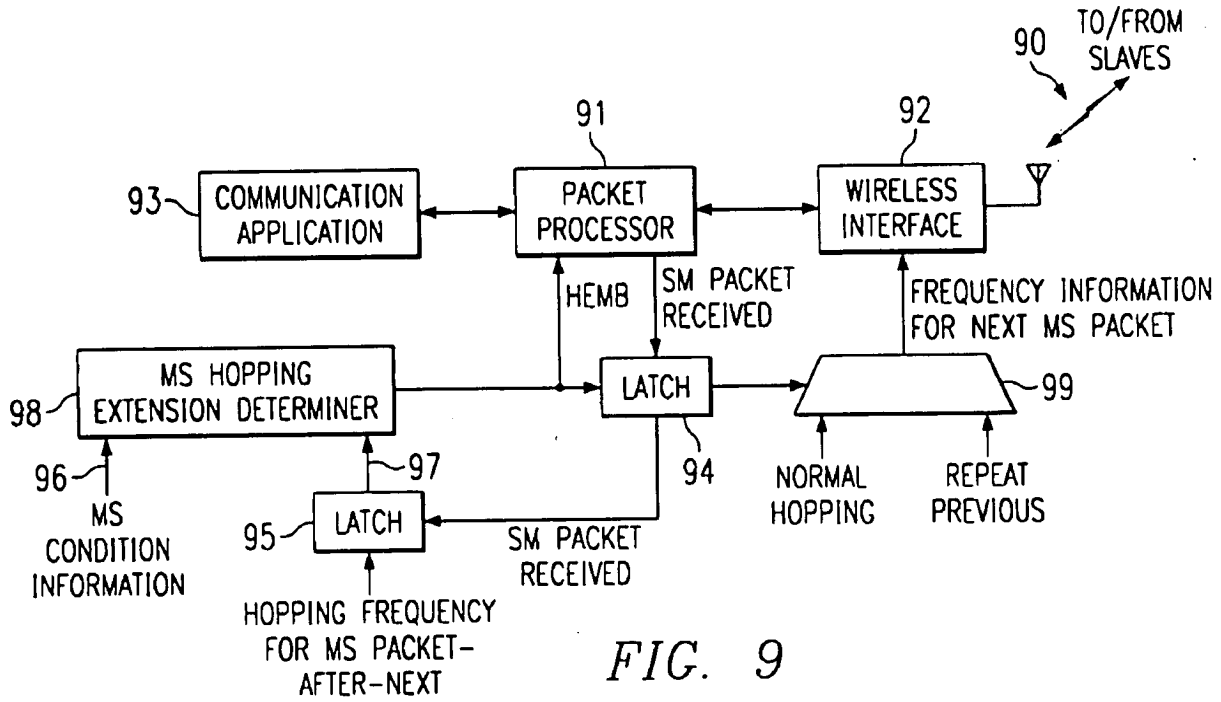

90
TO/FROM SLAVES
91
92
93
COMMUNICATION APPLICATION
PACKET PROCESSOR
WIRELESS INTERFACE
HEMB
SM PACKET RECEIVED
FREQUENCY INFORMATION FOR NEXT MS PACKET
MS HOPPING EXTENSION DETERMINER
LATCH
98
99
96
97
94
MS CONDITION INFORMATION
95
LATCH
SM PACKET RECEIVED
NORMAL HOPPING
REPEAT PREVIOUS
HOPPING FREQUENCY FOR MS PACKET-AFTER-NEXT

FIG. 9

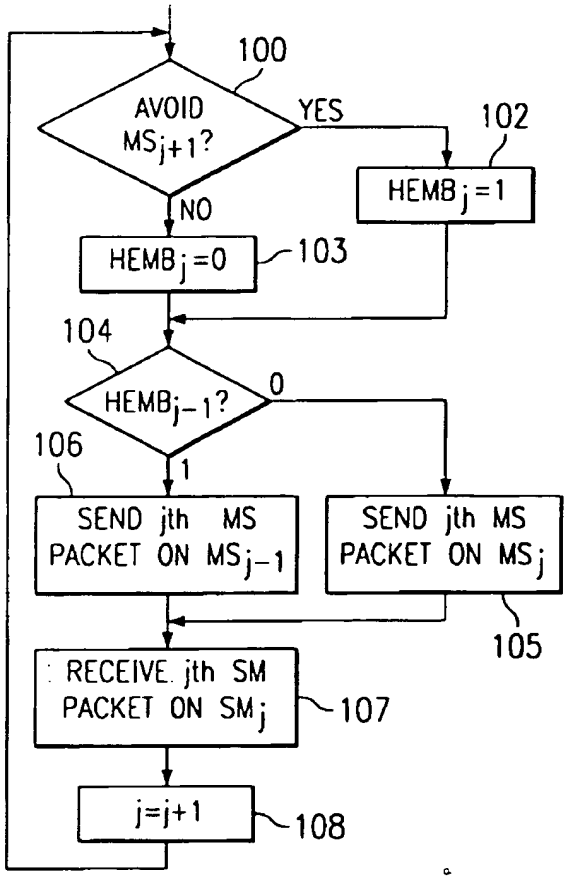


FIG. 10

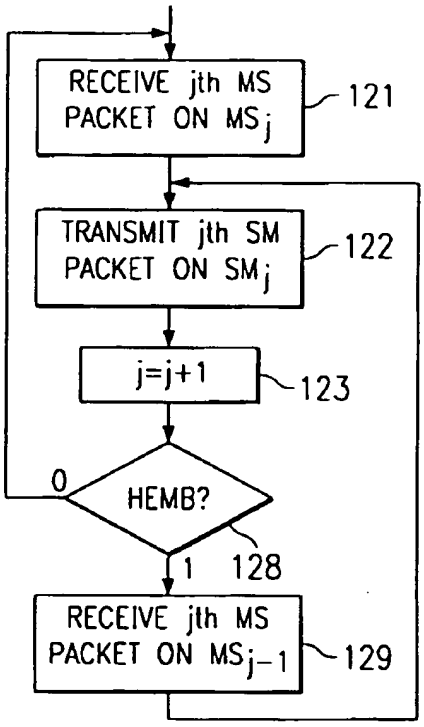


FIG. 12

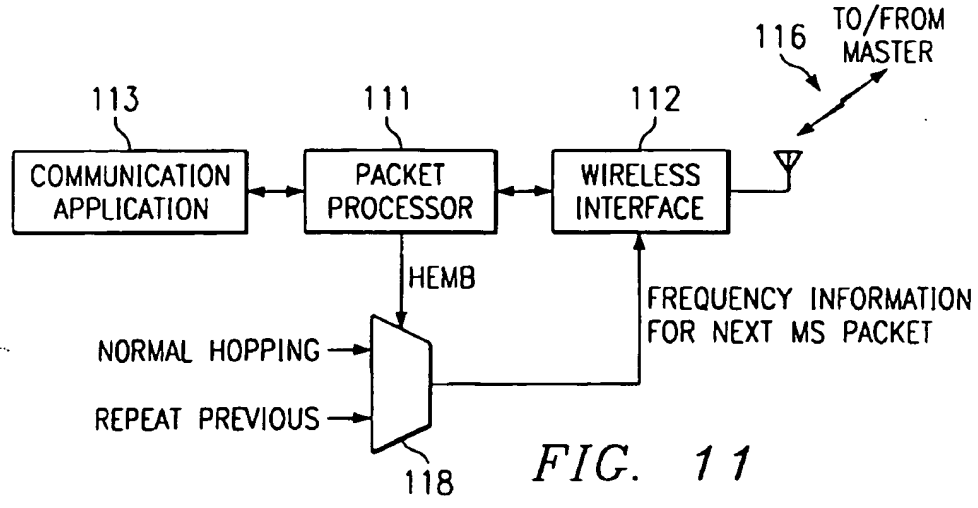


FIG. 11

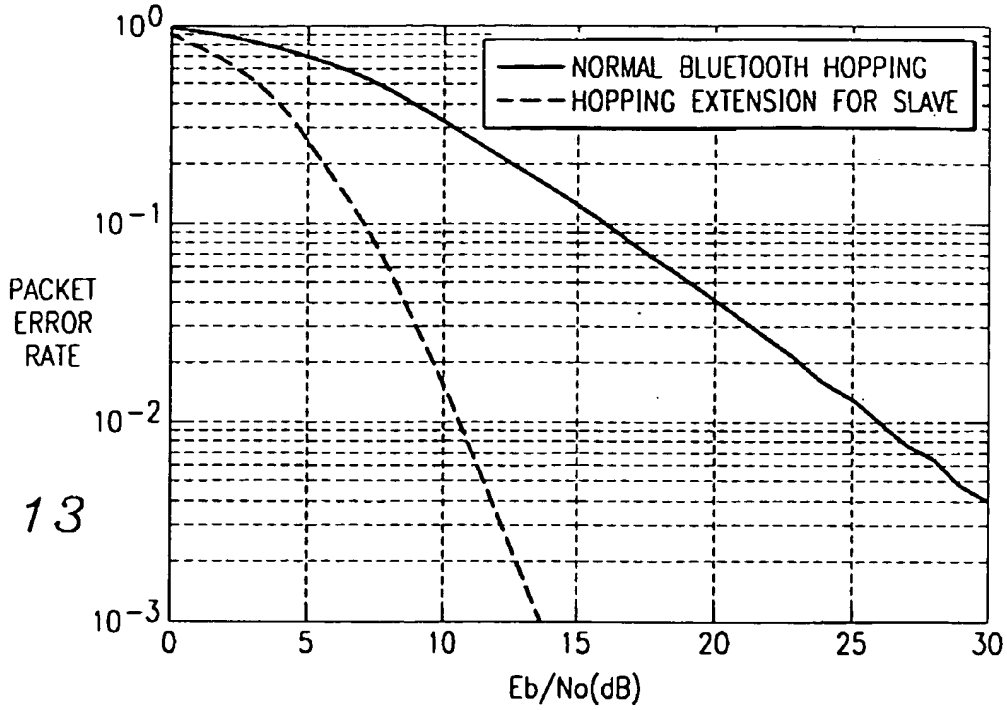

NORMAL BLUETOOTH HOPPING
HOPPING EXTENSION FOR SLAVE
PACKET ERROR RATE
10^0
10^{-1}
10^{-2}
10^{-3}
0
5
10
15
20
25
30
Eb/No(dB)

FIG. 13

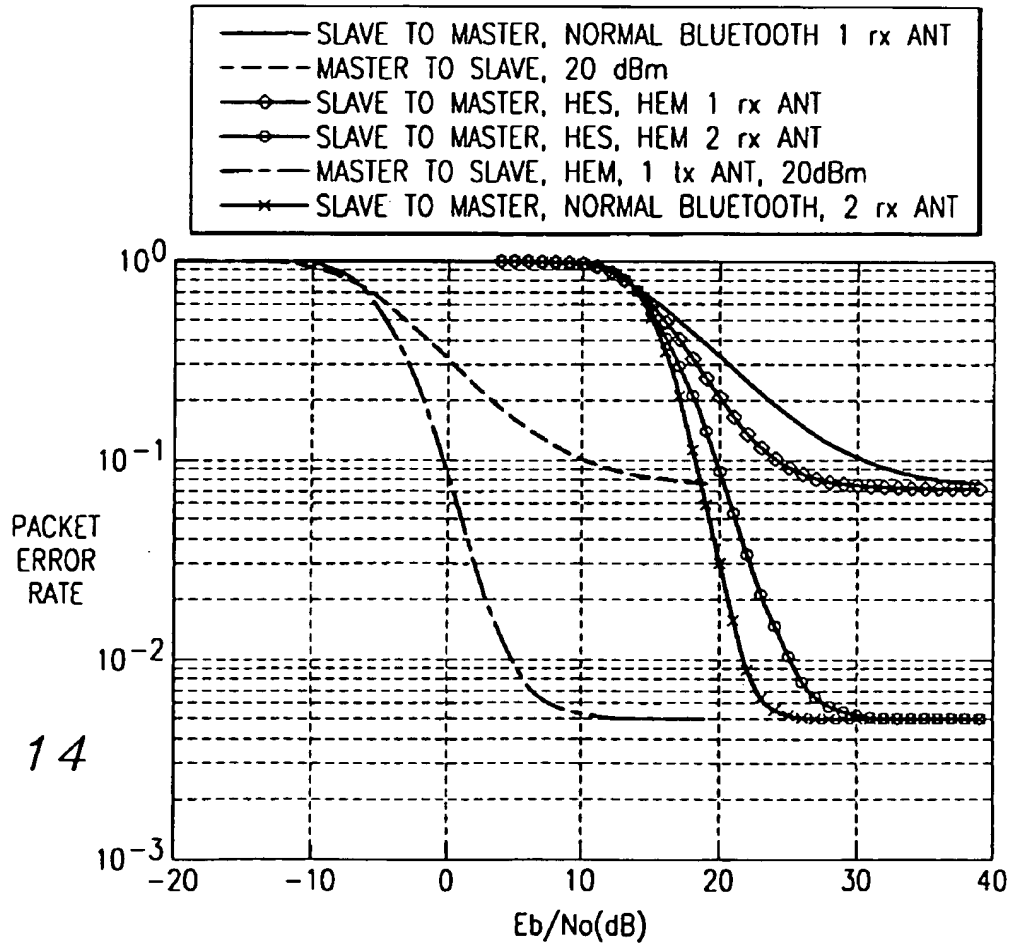

SLAVE TO MASTER, NORMAL BLUETOOTH 1 rx ANT
MASTER TO SLAVE, 20 dBm
SLAVE TO MASTER, HES, HEM 1 rx ANT
SLAVE TO MASTER, HES, HEM 2 rx ANT
MASTER TO SLAVE, HEM, 1 tx ANT, 20dBm
SLAVE TO MASTER, NORMAL BLUETOOTH, 2 rx ANT
PACKET ERROR RATE
10^0
10^{-1}
10^{-2}
10^{-3}
-20
-10
0
10
20
30
40
Eb/No(dB)

FIG. 14